

From the INTERNATIONAL BUREAU

PCTNOTIFICATION CONCERNING
TRANSMITTAL OF COPY OF INTERNATIONAL
APPLICATION AS PUBLISHED OR REPUBLISHED

To:

KELBER, Steven, B.
Piper Rudnick LLP
1200 19th Street, N.W.
Washington, DC 20036
ETATS-UNIS D'AMERIQUEDate of mailing (day/month/year)
25 August 2005 (25.08.2005)Applicant's or agent's file reference
9551-023-27PCT

IMPORTANT NOTICE

International application No.
PCT/US2004/038937International filing date (day/month/year)
22 November 2004 (22.11.2004)Priority date (day/month/year)
20 November 2003 (20.11.2003)

Applicant

THE HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY MEDICINE, INC. et al

The International Bureau transmits herewith the following documents:

- ☐ copy of the international application as published by the International Bureau on under No. WO
- ☒ copy of international application as republished by the International Bureau on 25 August 2005 (25.08.2005) under No. WO 2005/052366
- For an explanation as to the reason for this republication of the international application, reference is made to INID codes (15), (48) or (88) (as the case may be) on the front page of the attached document.

DOCKETEDDLA PIPER RUDNICK
GRAY CARY US LLPBY Piper Rudnick DATE 8/30/05
Chapter I
DUE DATE Chapter II 5/20/06

AUG 29 2005

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 June 2005 (09.06.2005)

PCT

(10) International Publication Number
WO 2005/052366 A3

(51) International Patent Classification⁷: **A61M 1/00**

[US/US]; 18023 Wheatridge Drive, Germantown, MD 20874 (US). RHEE, Peter [US/US]; 706 W. Roses Road, San Gabriel, CA 91775 (US). RHEE, Emily [US/US]; 706 W. Roses Road, San Gabriel, CA 91775 (US).

(21) International Application Number:
PCT/US2004/038937

(22) International Filing Date:
22 November 2004 (22.11.2004)

(74) Agents: KELBER, Steven, B. et al.; Piper Rudnick LLP, 1200 19th Street, N.W., Washington, DC 20036 (US).

(25) Filing Language: English

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(26) Publication Language: English

(30) Priority Data:
60/523,321 20 November 2003 (20.11.2003) US

(71) Applicant (for all designated States except US): THE HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY MEDICINE, INC. [US/US]; 1401 Rockville Pike, Suite 600, Rockville, MD 20852 (US).

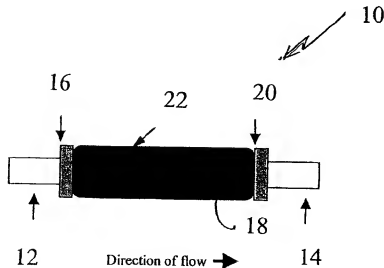
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

(72) Inventors; and

(75) Inventors/Applicants (for US only): ALAM, Hasan

[Continued on next page]

(54) Title: PORTABLE HAND PUMP FOR EVACUATION OF FLUIDS



(57) Abstract: A manually operable pump (10) for the effective removal of fluids to include blood, blood clots, fluid, and air from a body cavity of a subject is provided. The manually operable pump is adapted to be connect to a range of fluid conduits (12, 14) and is equipped with one-way valves (16, 20) that effectively permit flow of fluid through the pump in only one direction. The sensitivity of the one-way valves is such that when properly positioned, fluid can flow through the valves (16, 20) and out of the pump (10) without manual compression of the pump body (22).

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/38937

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A 61M 1/00
US CL : 604/540, 319

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S.: 604/540, 319, 30-38, 73-75, 131, 133, 142, 540-544, 317, 320-321

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Eastman, portable, pump, medical, surgical, human, suction, aspiration, breast, gravity, hand, foot, negative

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| X | US 5,112,323 A (WINKLER et al) 12 May 1992 (12.05.1992), see Figures. | 1-14 and 16 |
| — | | 15 |
| Y | | |
| X | US 4,029,095 A (PENA) 14 June 1977 (14.06.1977), see Figure 2. | 1-8, 10-14 and 16 |
| | US 3,572,340 A (LLOYD et al) 23 March 1971 (23.03.1971), see col. 9, lines 60-63 and col. 10, lines 56-75. | 15 |
| — | | |
| Y | | |

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "B" earlier application or patent published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "Z" document member of the same patent family

Date of the actual completion of the international search

23 May 2005 (23.05.2005)

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Date of mailing of the international search report

05 JUL 2005

Authorized officer

Karin M. Reichle

Telephone No. (571) 272-3700